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(54) Piezoelectric acoustic transducer

(57) A piezoelectric acoustic transducer that can be reliably and easily connected with an external conductor without detracting from the vibration characteristics of the piezoelectric acoustic transducing element is provided. A first case member (11) is provided with an acoustic hole (110) continuous with an internal space (10). A piezoelectric acoustic transducing element (2) is constituted by mounting a piezoelectric element (22) on one surface (211) of a diaphragm (21) and is housed inside the case (1) partitioning the internal space into two portions. Ends (311) and (321) of terminal members (31) and (32) respectively are connected to the piezoelectric element (22) inside the case (1), their middle portions (312) and (322) are held between the first case member (11) and the second case member (12) and the portions that are beyond the middle portions (312) and (322) are led out to the outside of the case (1) to constitute spring pieces (313) and (323), which are folded upward and back over the one surface of the second case member (12).

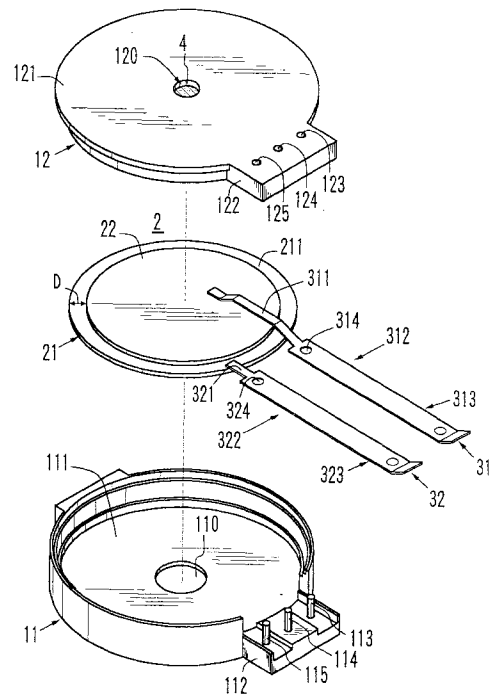


FIG. 1



European Patent Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 30 1606

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	US 4 947 075 A (MAURY BERNARD ET AL) 7 August 1990 * column 4, line 12 - column 6, line 59; figures 1-3 *	1-7,9-18	H04R17/02 H04R1/06 H04R17/00
Y	US 4 507 800 A (KELLY MICHAEL L) 26 March 1985 * column 1, line 65 - column 3, line 3 * * column 3, line 34 - column 4, line 45 * * column 5, line 29 - column 6, line 10; figures 1-3,5-7 *	1-3,6,7,9-13	
Y	PATENT ABSTRACTS OF JAPAN vol. 014, no. 515 (E-1000), 13 November 1990 & JP 02 214296 A (MATSUSHITA ELECTRIC IND CO LTD), 27 August 1990, * abstract *	4,5	
Y	US 4 796 288 A (BUSCHE ALAN C ET AL) 3 January 1989 * the whole document *	14-18	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04R H04M H01R
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 19 May 1998	Examiner Nieuwenhuis, P
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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